

(19) **KOREAN INTELLECTUAL PROPERTY OFFICE**

# **KOREAN PATENT ABSTRACTS**

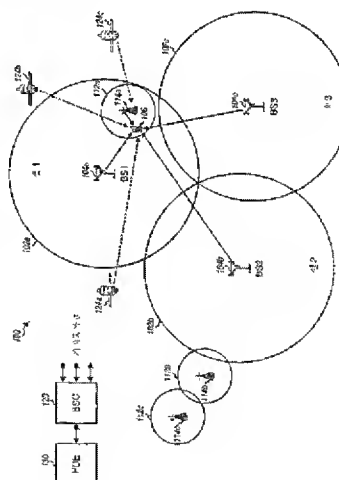
(11)Publication number: **1020030088511 A**  
 (43)Date of publication of application: **19.11.2003**

(21)Application number: **1020037013934** (71)Applicant: **QUALCOMM INCORPORATED**  
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 (30)Priority: **24.04.2001 US2001 286274**  
 (51)Int. Cl **H04B 7/26**

## **(54) METHOD AND APPARATUS FOR ESTIMATING THE POSITION OF A TERMINAL BASED ON IDENTIFICATION CODES FOR TRANSMISSION SOURCES**

(57) Abstract:

Techniques to determine the position of a terminal under the coverage of a repeater in a wireless communication system. In an aspect, an identification code is transmitted for each repeater and used by the terminal (or a PDE) to unambiguously identify the repeater. The identification codes for the repeaters in the system can be implemented with PN sequences at defined offsets that are specifically reserved for repeater identification. In another aspect, the identification code for each repeater is transmitted using a spread- spectrum signal designed to have minimal impact on the performance of the system and to be recoverable by the terminal in similar manner as for a forward modulated signal. In this way, no additional hardware is required for the terminal to recover the identifier signal. In one specific design, the spread spectrum identifier signal is generated in accordance with and conforms to the IS-95 CDMA standard.



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Legal Status

Date of request for an examination (20070424)  
Notification date of refusal decision (00000000)  
Final disposal of an application (registration)  
Date of final disposal of an application (20090223)  
Patent registration number (1008994650000)  
Date of registration (20090519)  
Number of opposition against the grant of a patent ( )  
Date of opposition against the grant of a patent (00000000)  
Number of trial against decision to refuse ( )  
Date of requesting trial against decision to refuse ( )  
Date of extinction of right ( )